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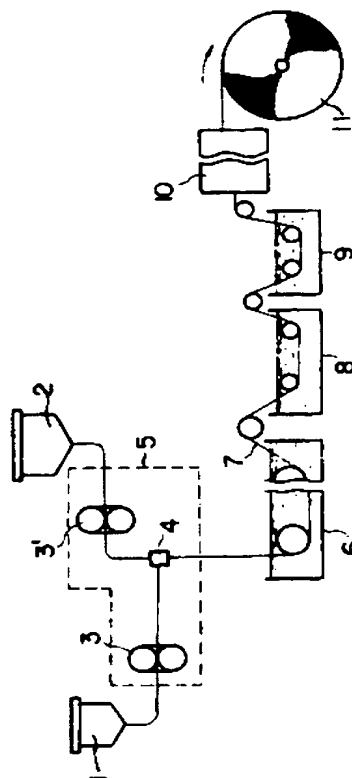
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TITLE : HOLLOW FIBER FILLED WITH LATENT
HEAT-STORING AGENT



ABSTRACT : PURPOSE: A melted resin or spinning dope is extruded through the outside part in hollow annular nozzles and a melted latent heat-storing material through the inside part to give hollow fibers filled with a latent heat-storing material in the hollow part, thus showing a very large heat transfer area.

CONSTITUTION: A melted resin or spinning dope such as melted polyvinylidene chloride is sent from hopper 1 and a melted latent heat-storing material such as melted naphthalene is sent from hopper 2 through gear pumps 3, 3' respectively to a hollow annular nozzle 4. The melted polymer is passed through the outer part of the nozzle 4 and the latent heat-storing material is extruded through the inner part and the resultant yarn is guided into cooling chimney (in case of the spinning dope, into the gelation bath 6) where the yarn is cooled. Preferably, the yarn, coming out of the gelation bath, is passed through the coating tank 8, the polymerization tank 9 and heat treatment tank 10 to effect resin coating.

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